

APPARATUS AND METHOD FOR CATHETER GUIDANCE CONTROL

AND IMAGING

Yehoshua Shachar

Appl. No.: Unknown Atty Docket: EMAG.003A

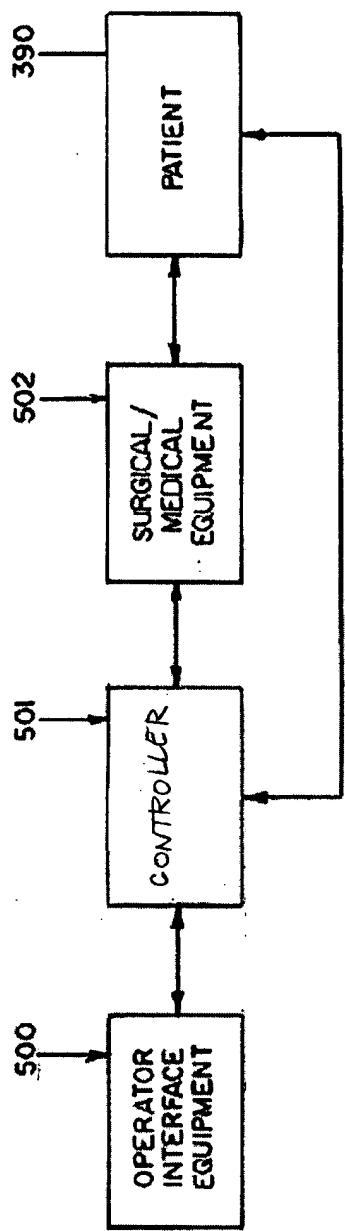


FIG. 1A

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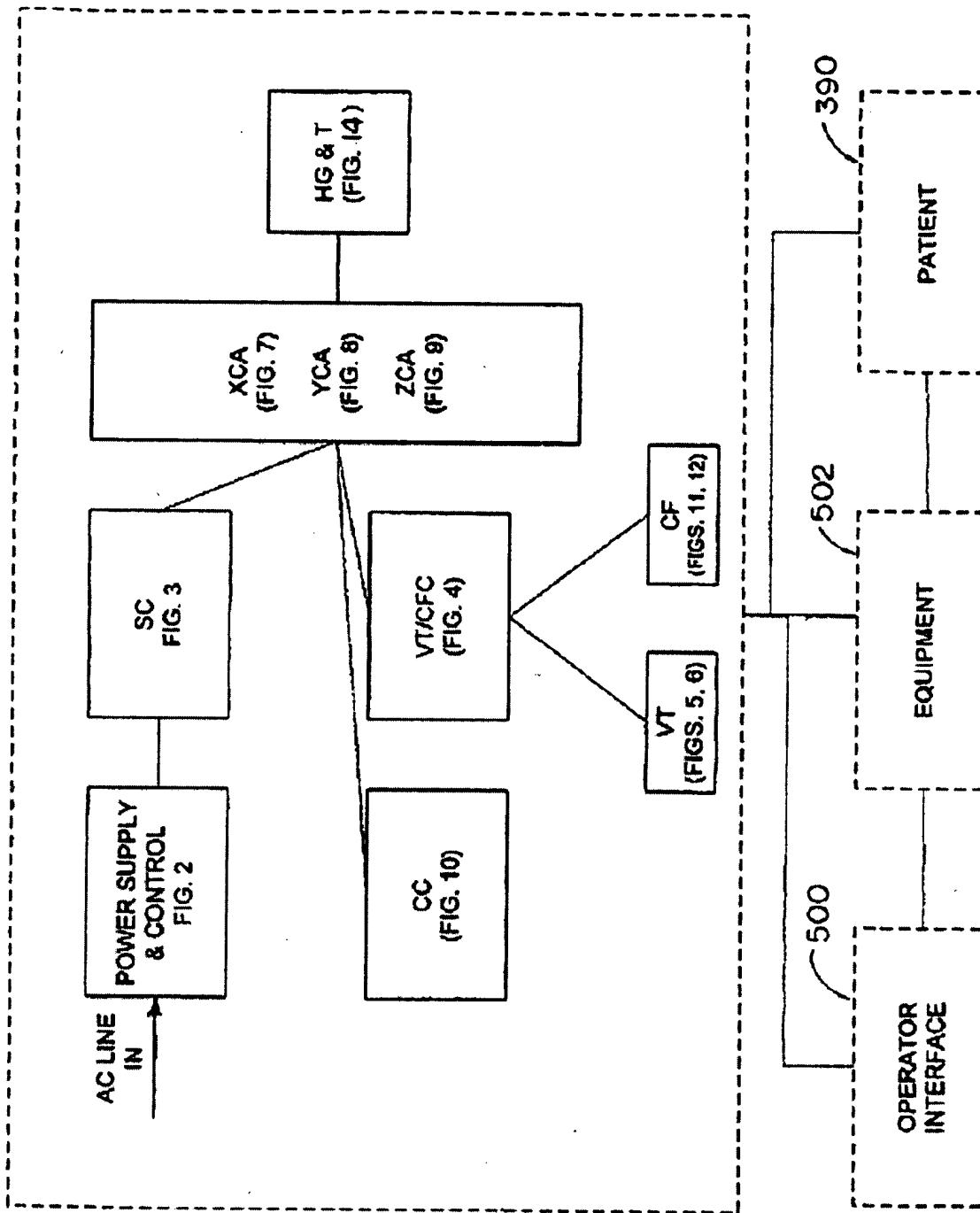


FIG. 1B

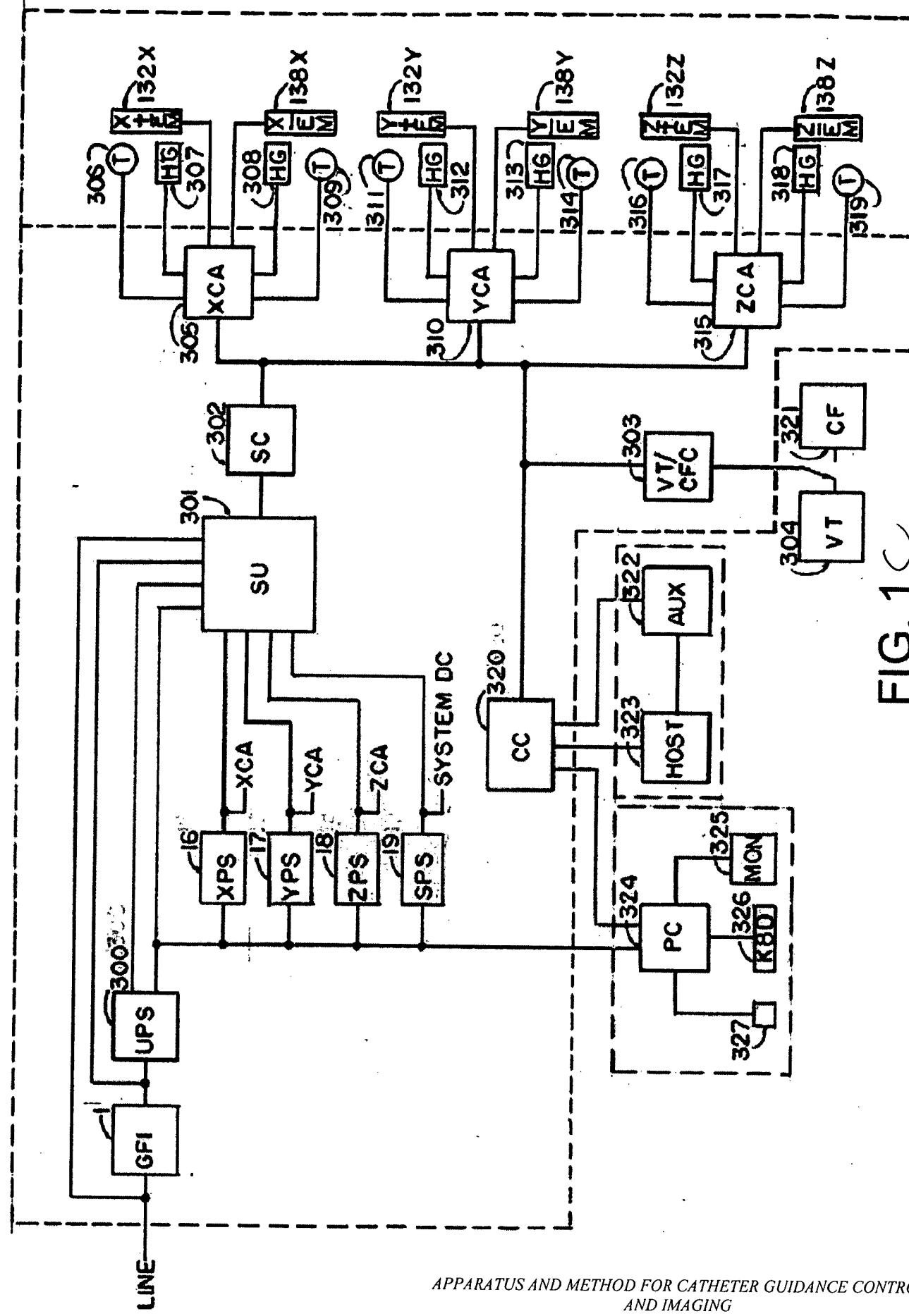


FIG. 1 C

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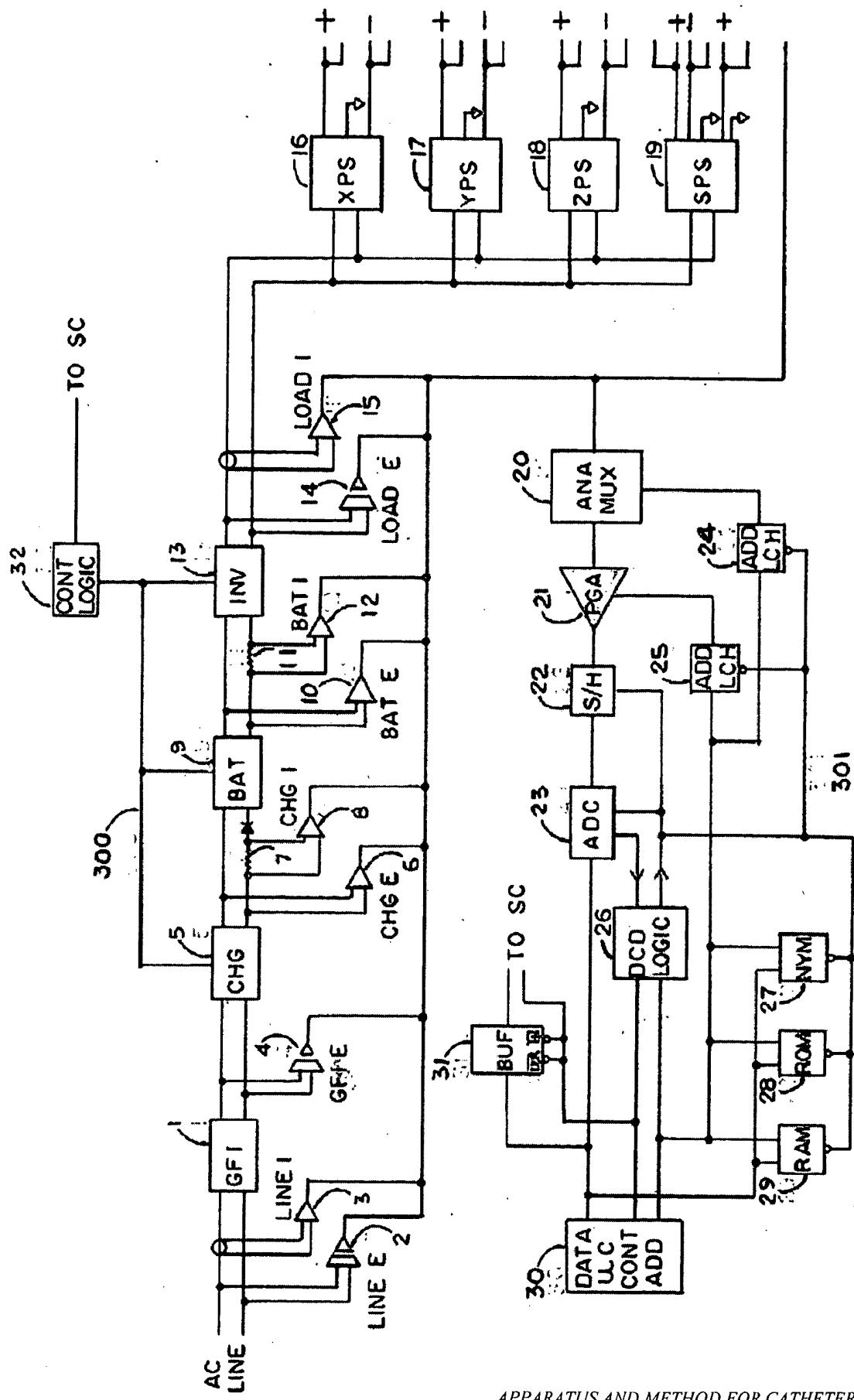


FIG. 2

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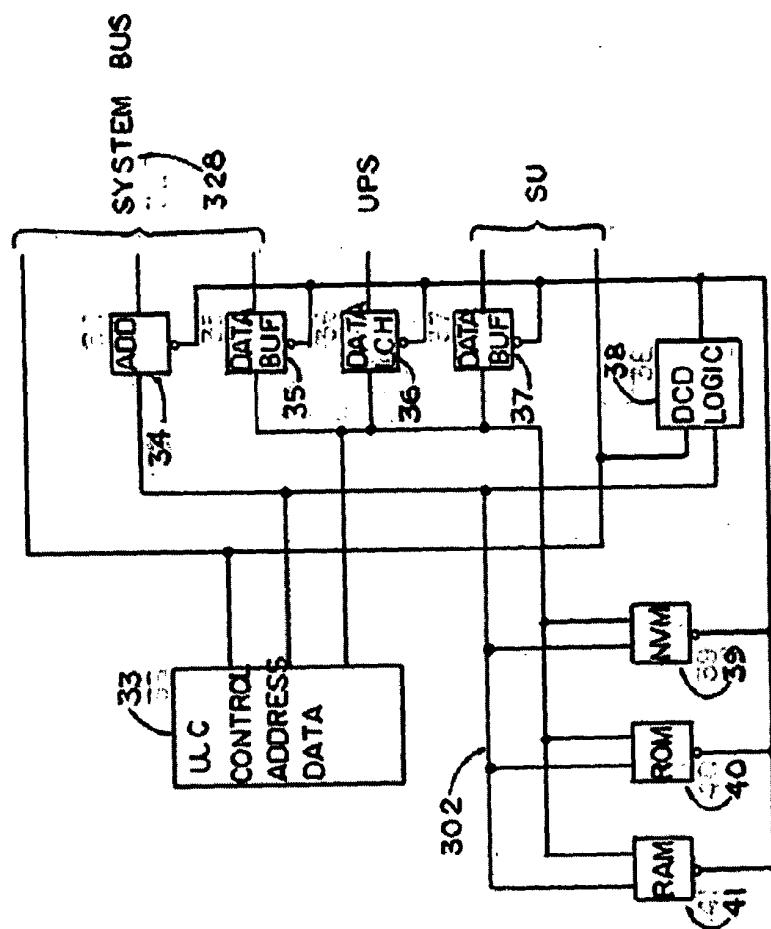


FIG. 3

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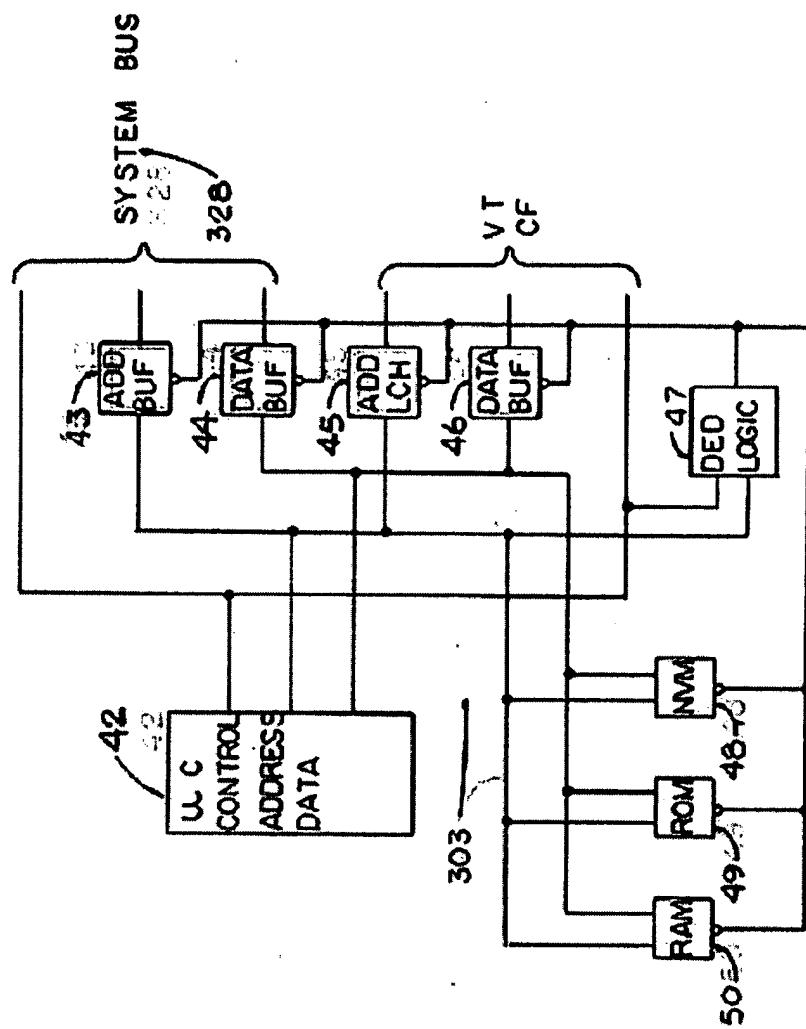


FIG. 4

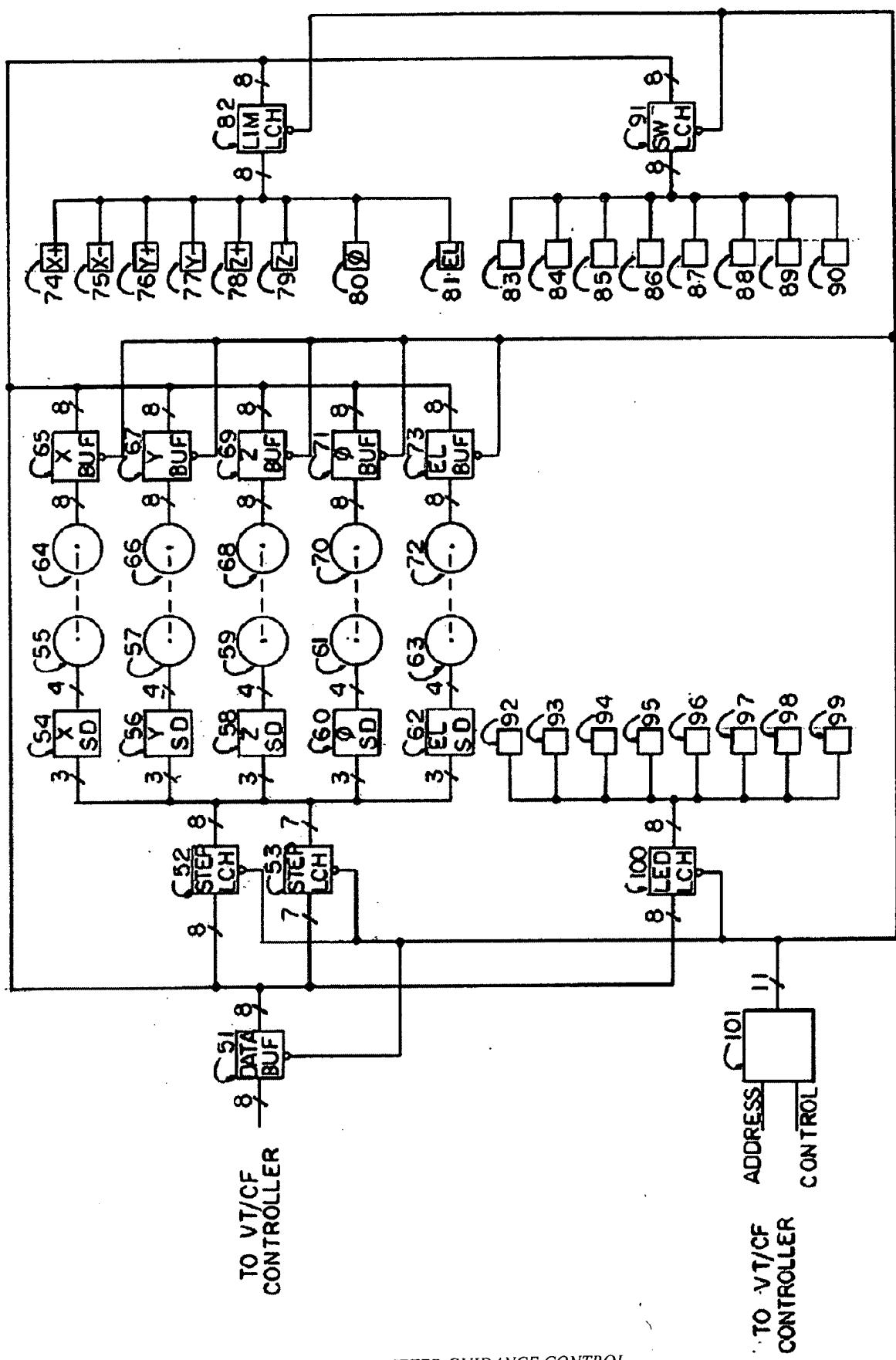


FIG. 5

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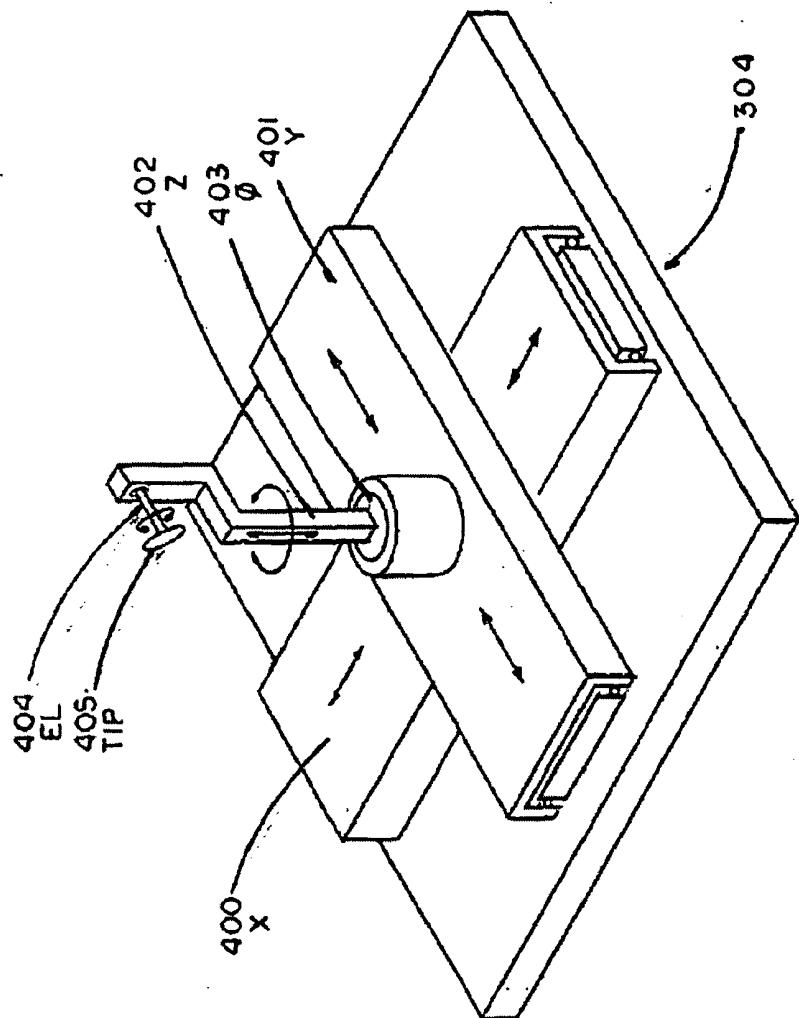


FIG. 6

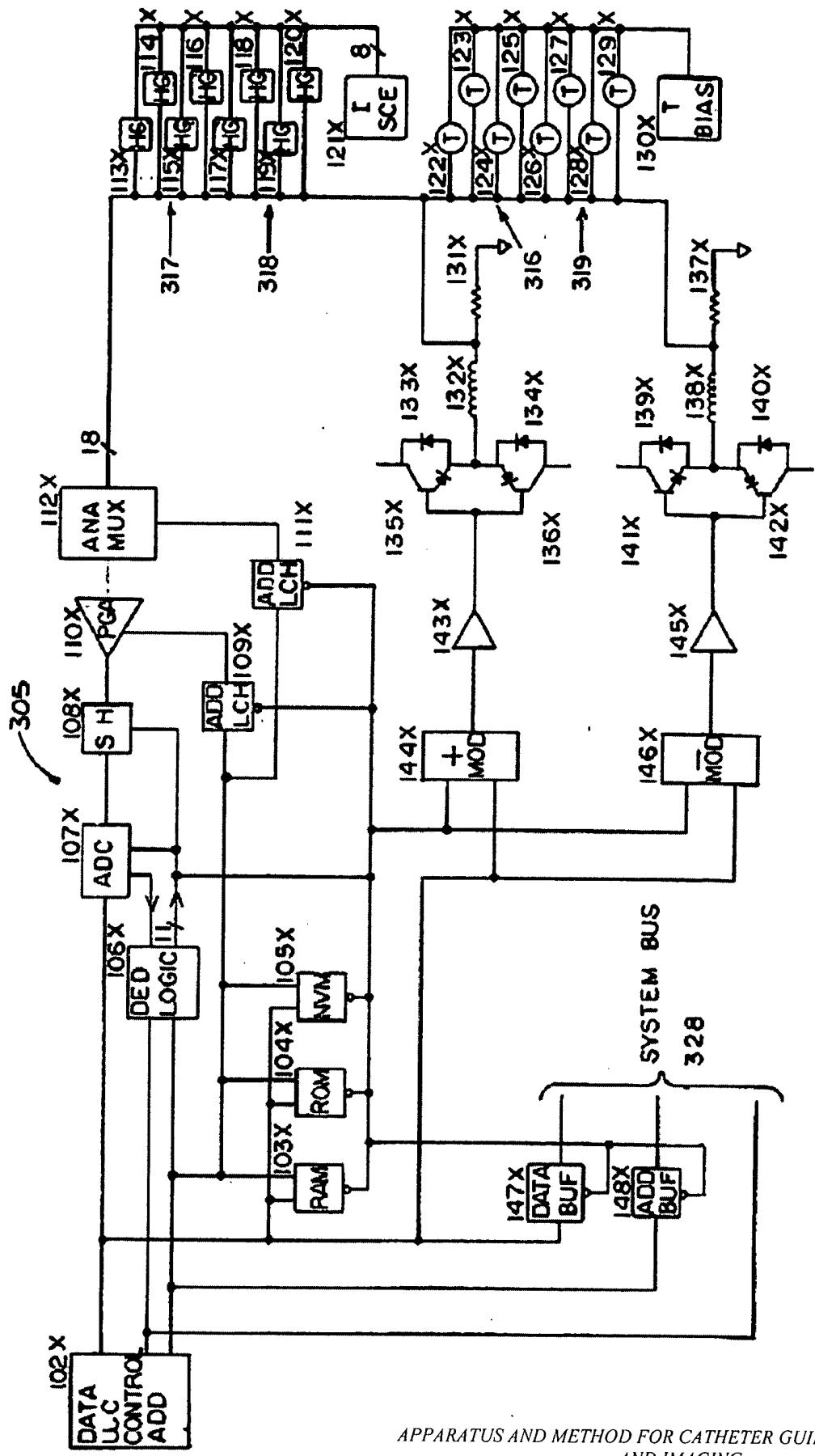
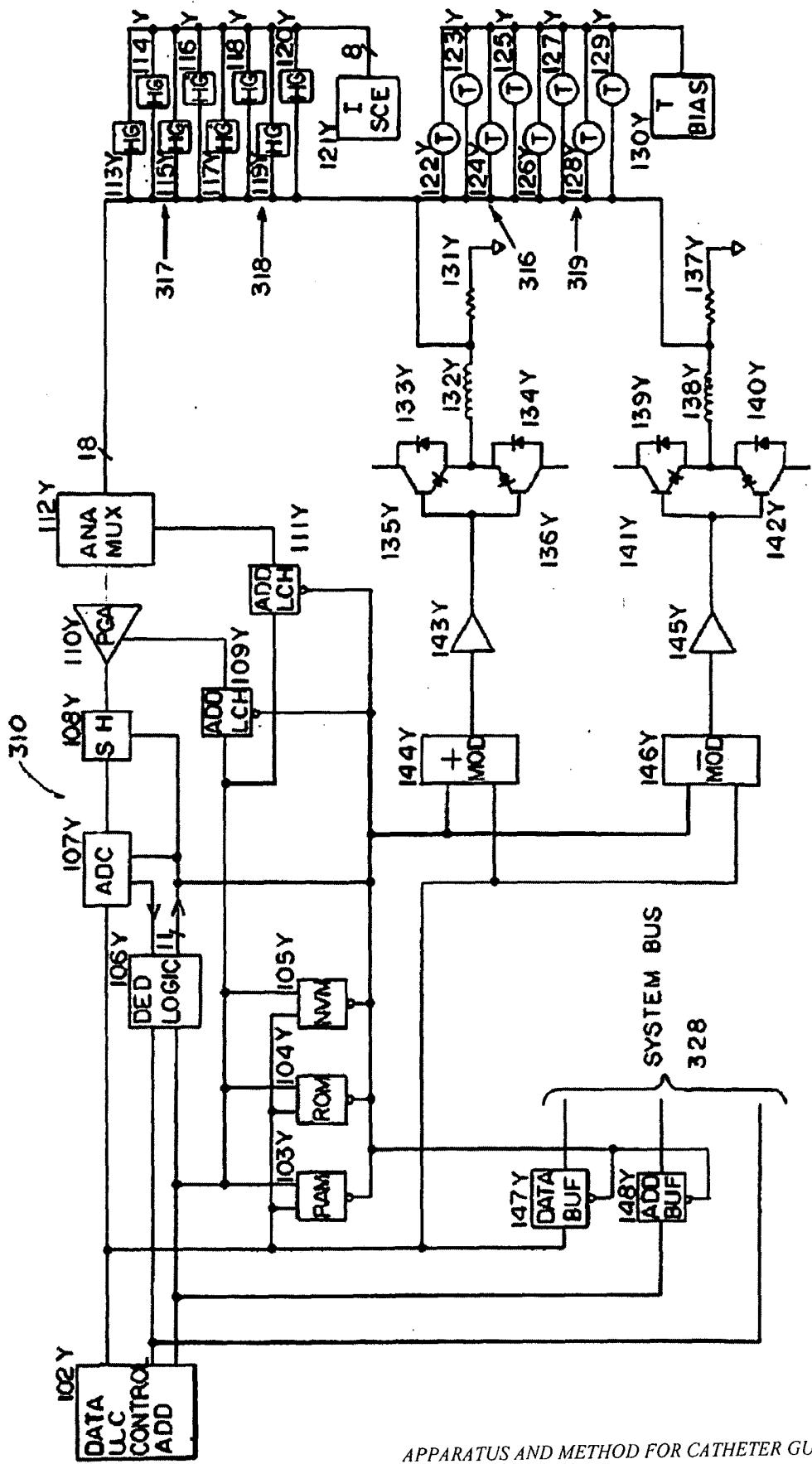


FIG. 7

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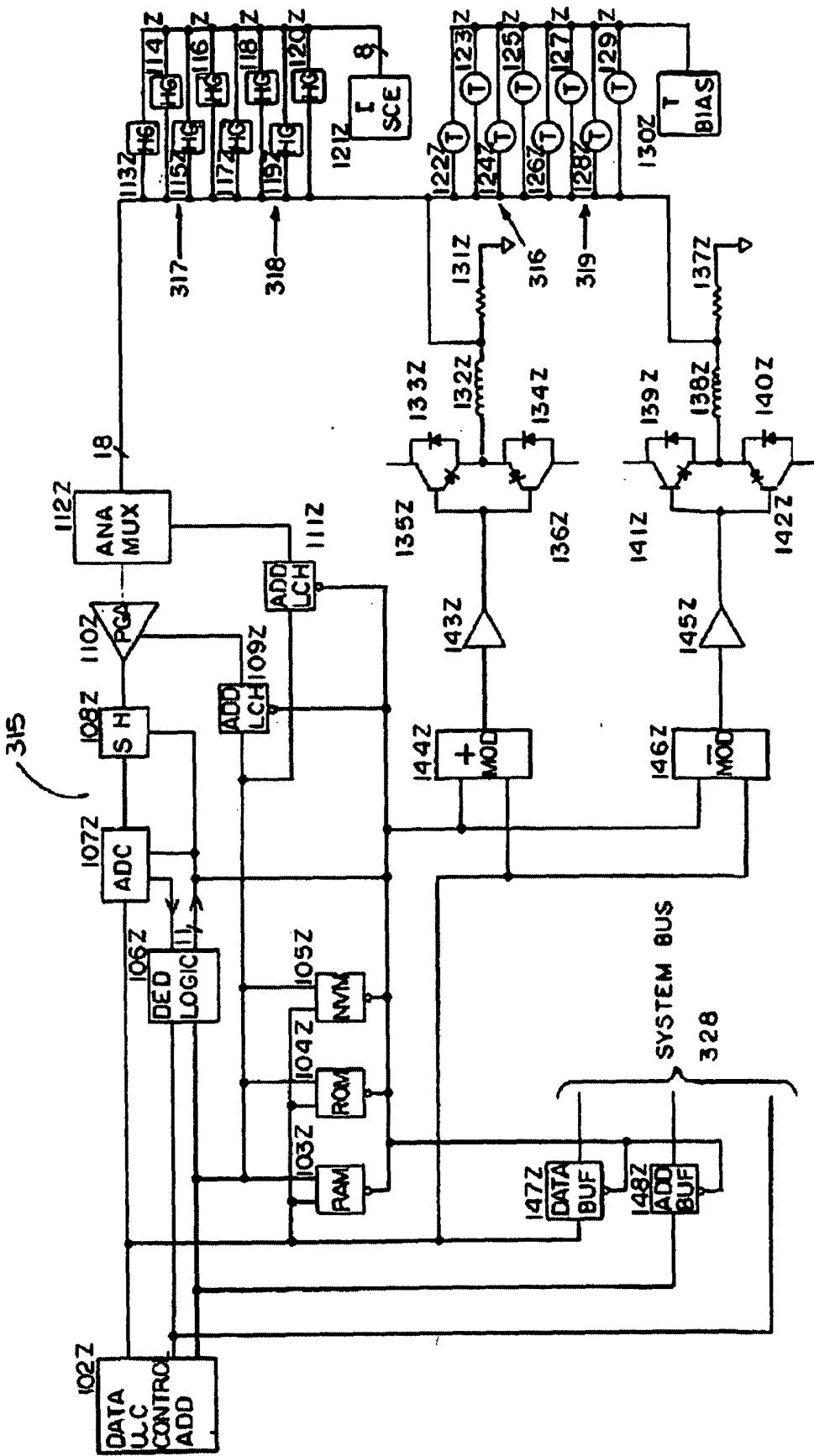


FIG. 9

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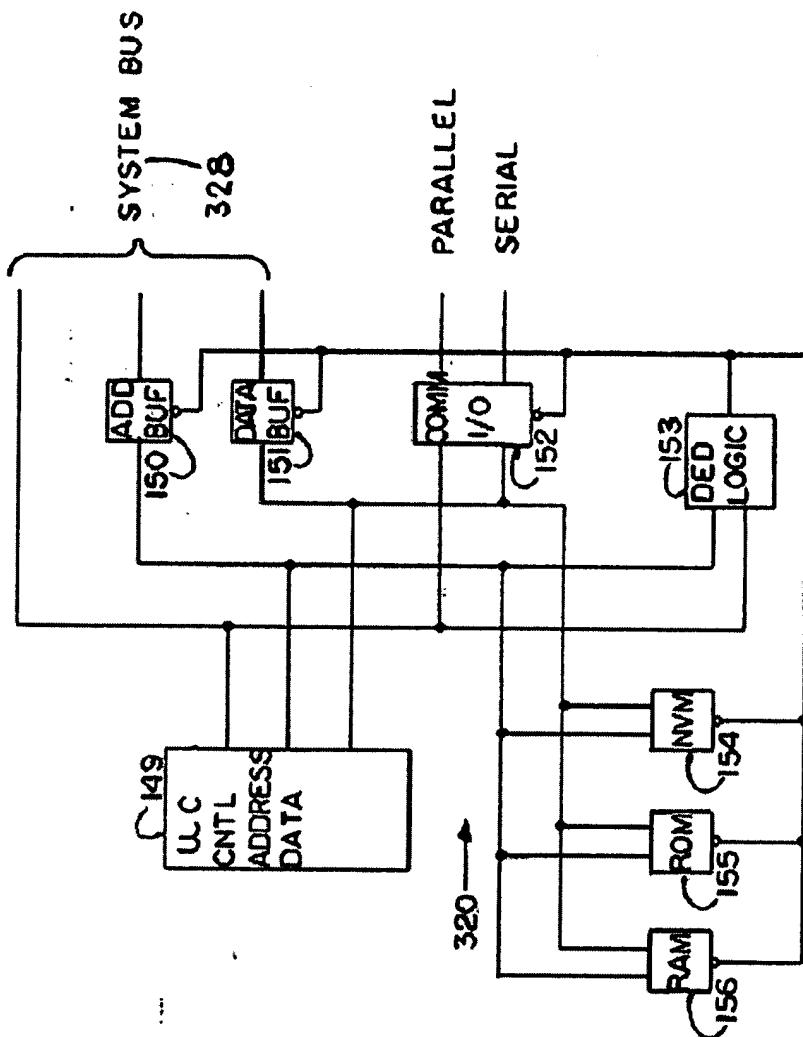


FIG. 10

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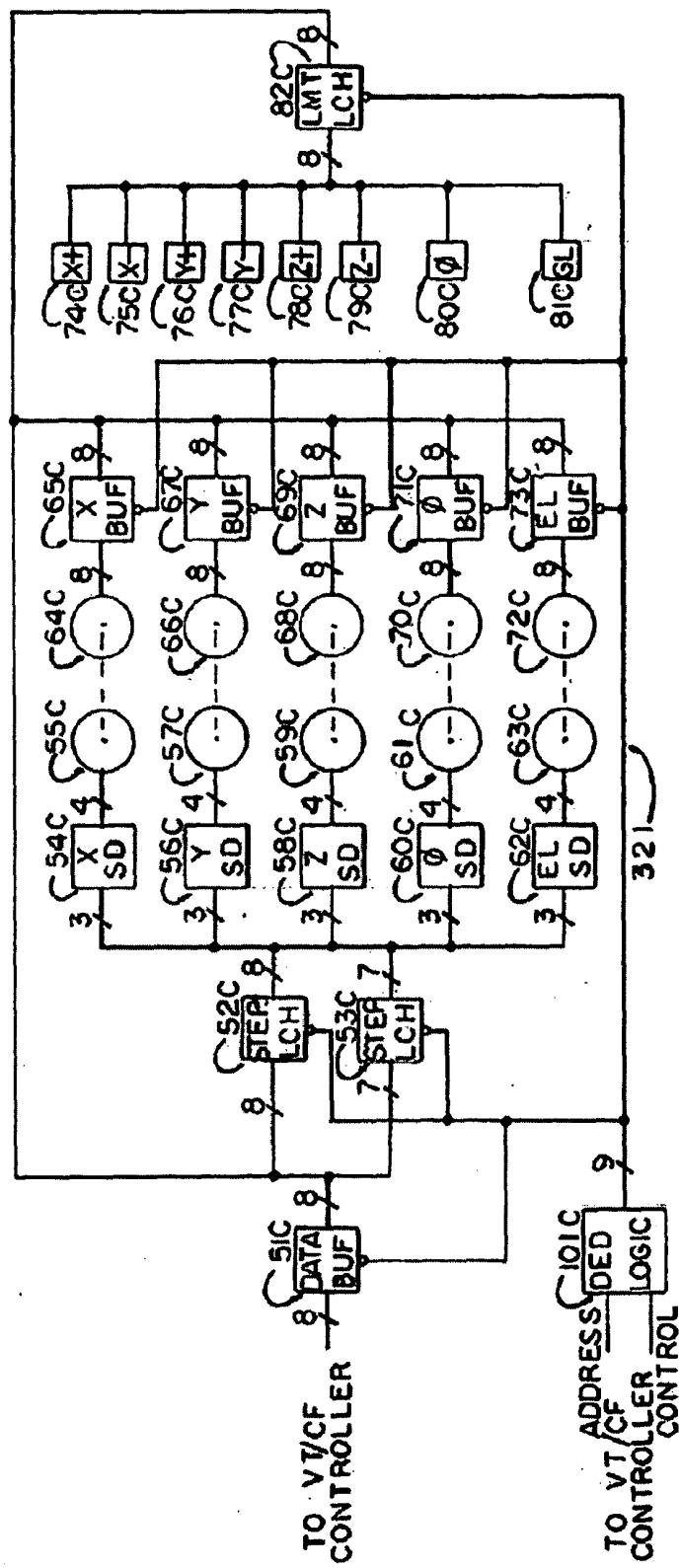


FIG. 11

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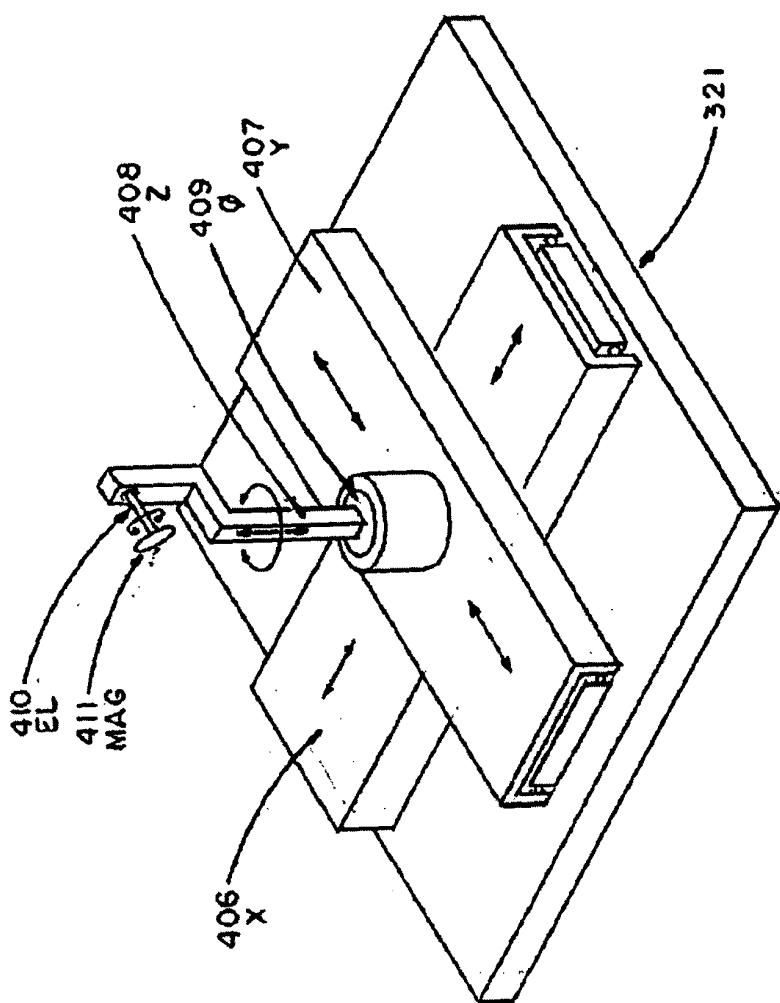


FIG. 12

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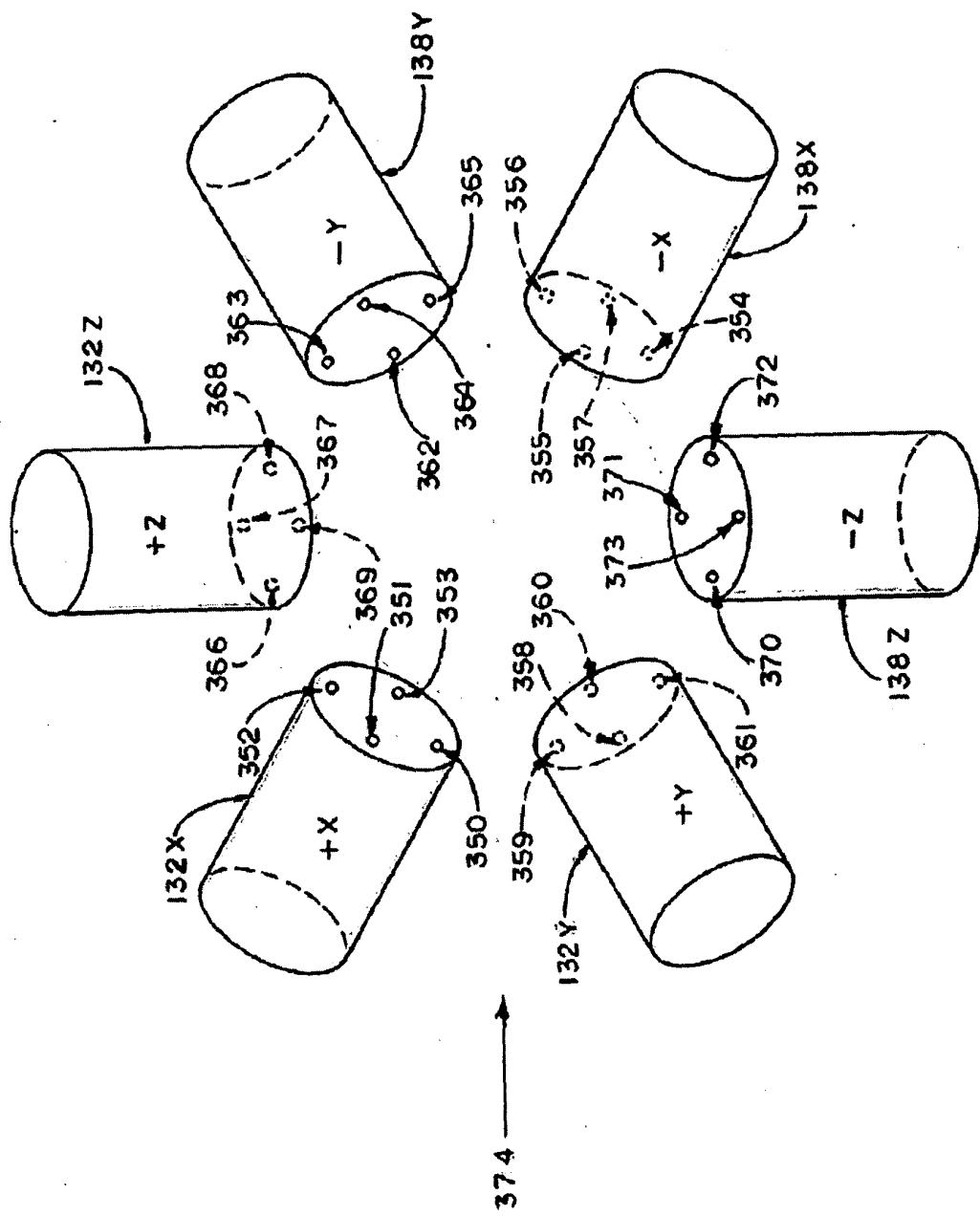
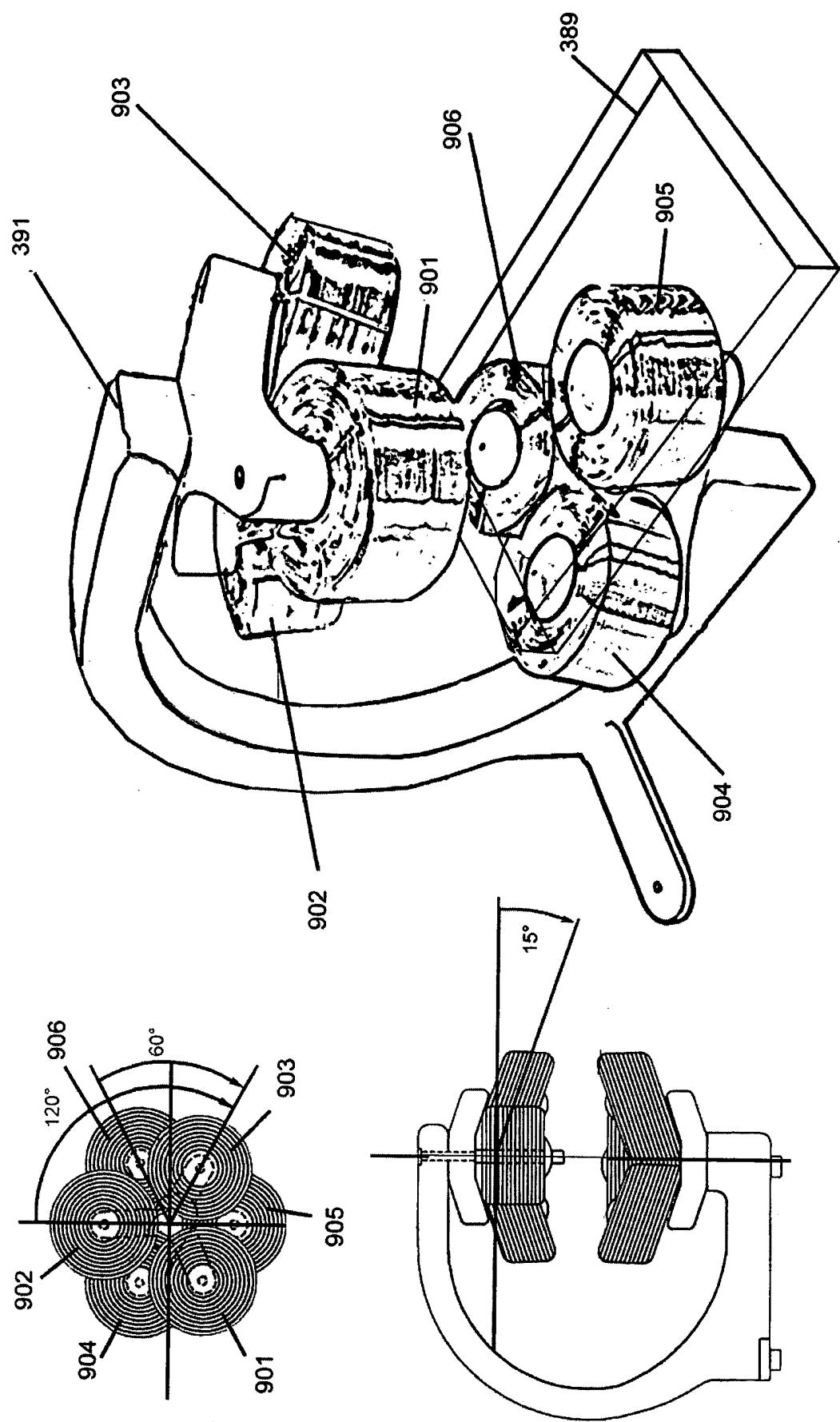


FIG. 13

FIG. 13A



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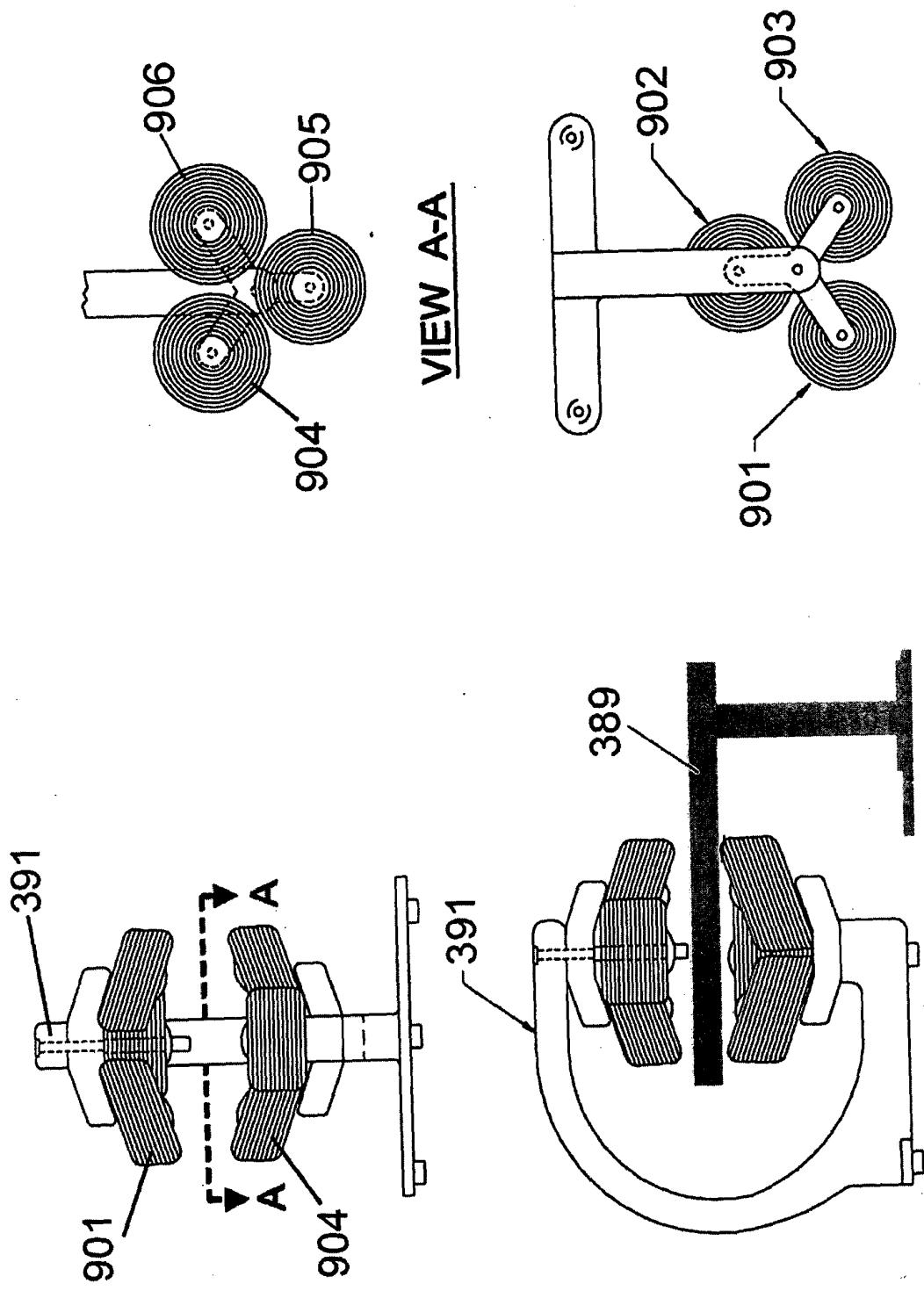


FIG. 13B

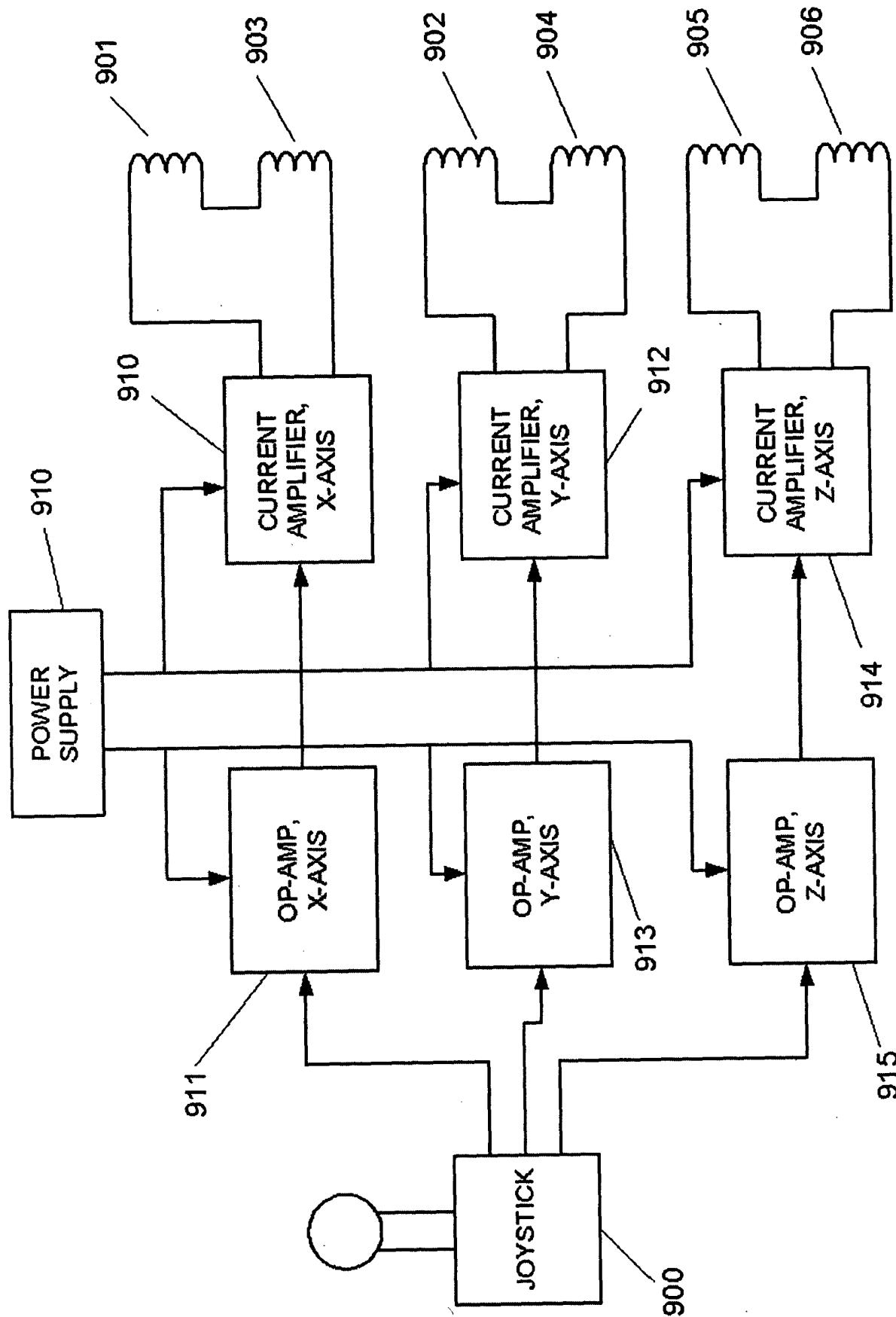


FIG. 13C

APPARATUS AND METHOD FOR CATHETER GUIDANCE CONTROL

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$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} v_{ix} \\ v_{iy} \\ v_{iz} \end{bmatrix}$$

921 922 923

Fig. 13D

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} C_{11} C_{12} C_{13} \\ C_{21} C_{22} C_{23} \\ C_{31} C_{32} C_{33} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ I_3 \end{bmatrix}$$

921 925 926

Fig. 13E

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} R_{11} R_{12} R_{13} \\ R_{21} R_{22} R_{23} \\ R_{31} R_{32} R_{33} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ I_3 \end{bmatrix}$$

921 927 926

Fig. 13F

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} C_{11} C_{12} C_{13} \\ C_{21} C_{22} C_{23} \\ C_{31} C_{32} C_{33} \end{bmatrix} \begin{bmatrix} v_{ix} \\ v_{iy} \\ v_{iz} \end{bmatrix}$$

921 927 925

Fig. 13G

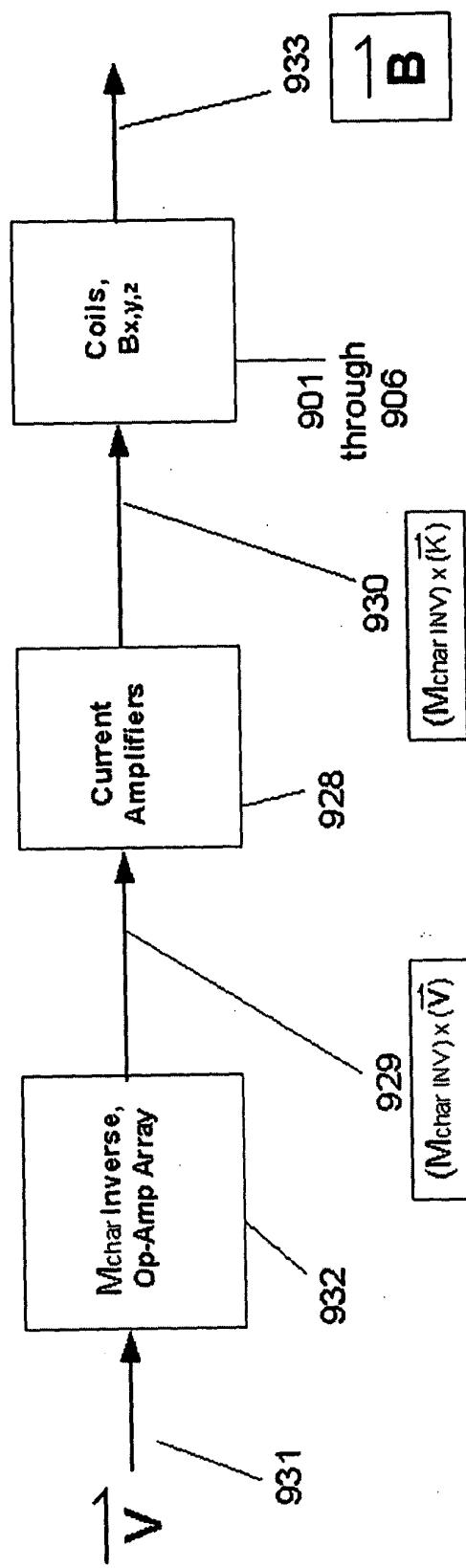


Fig. 13H

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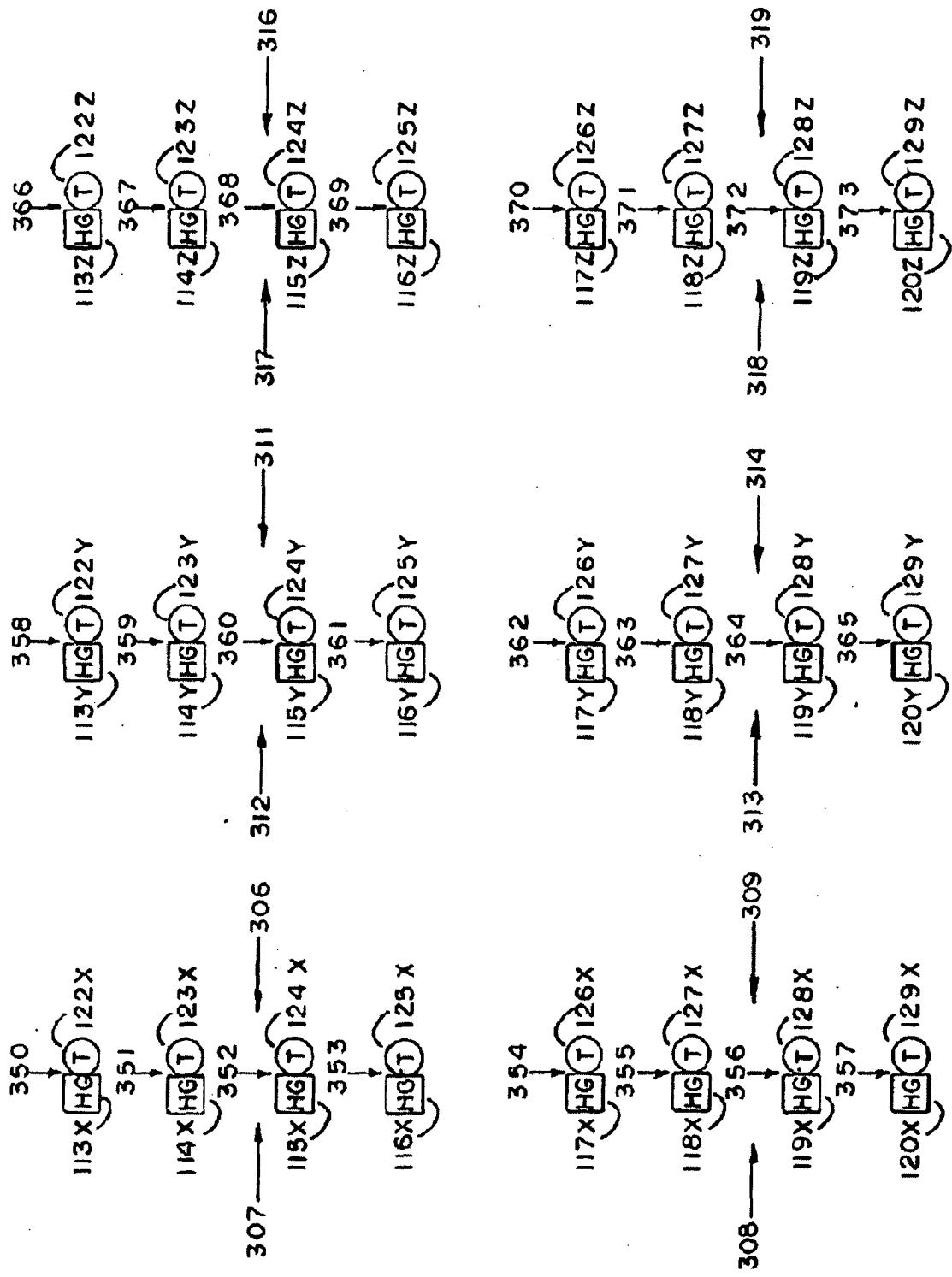


FIG. 14

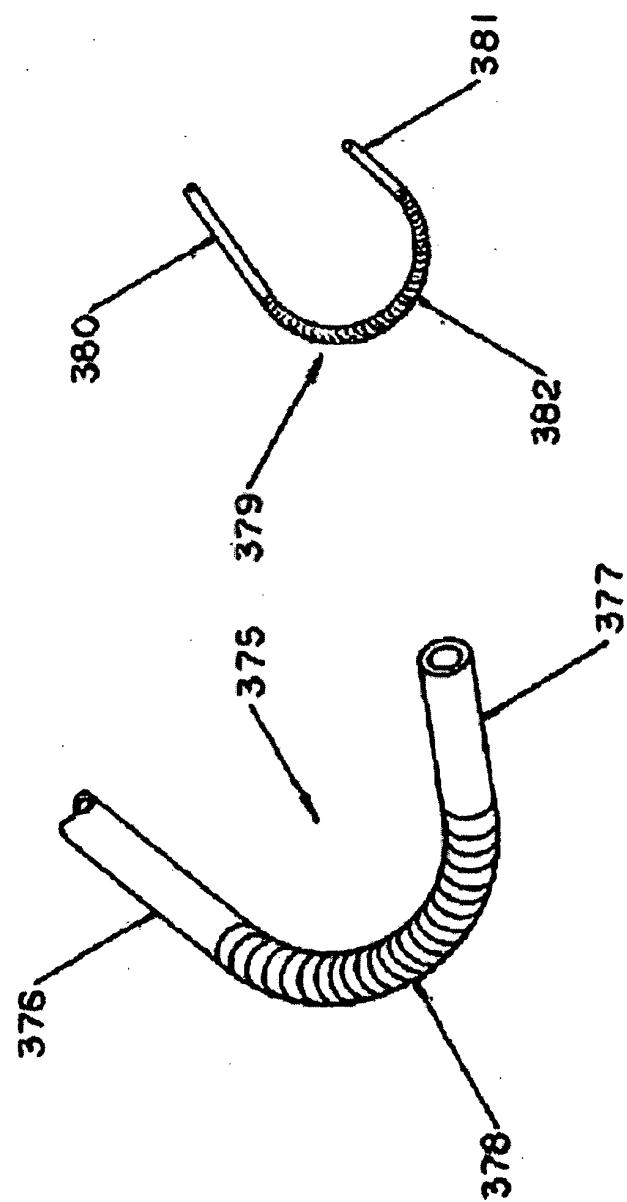
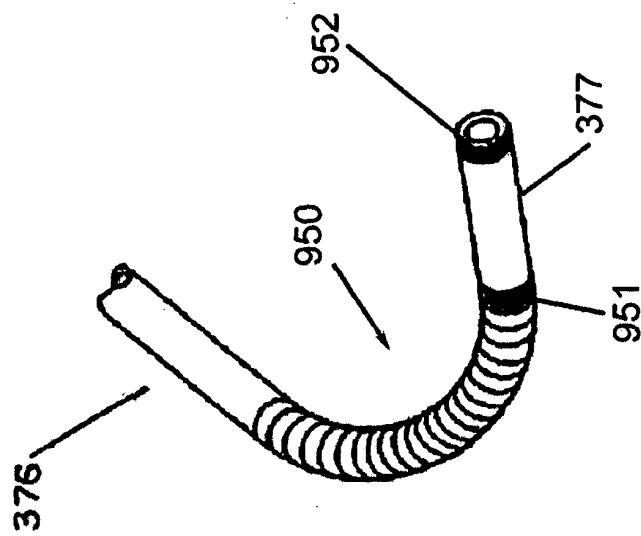


FIG. 15

FIG. 15B

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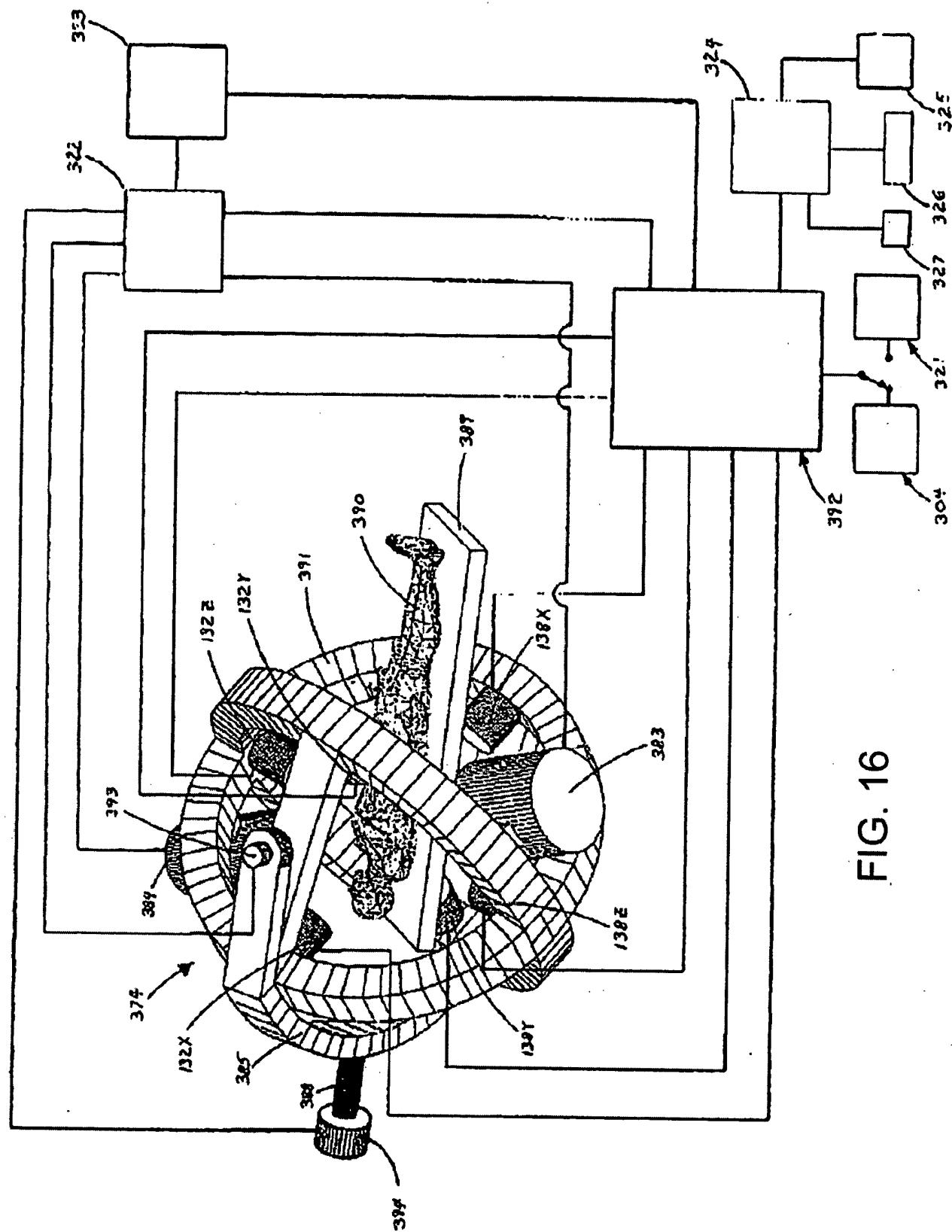
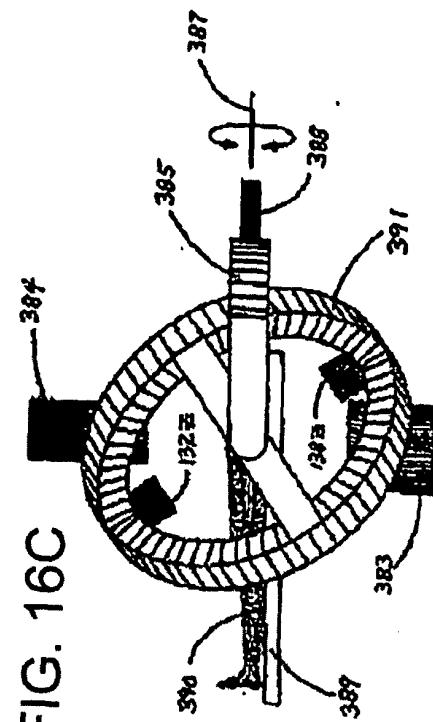
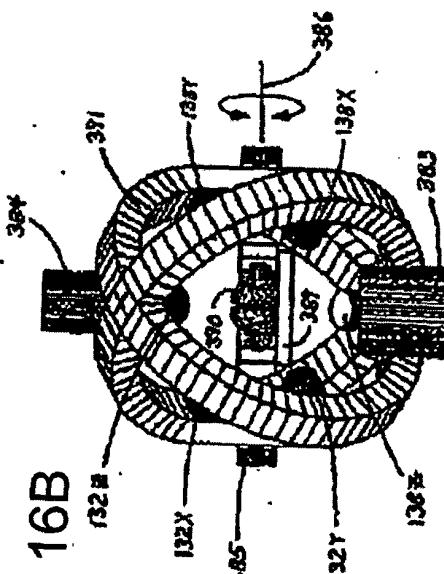
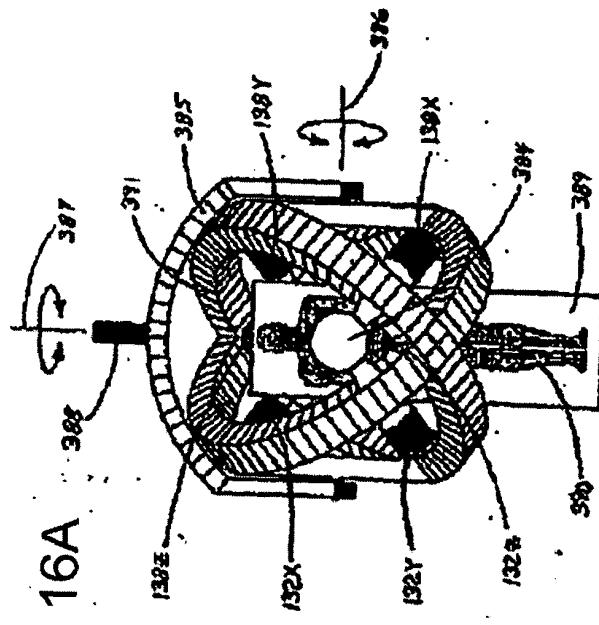


FIG. 16

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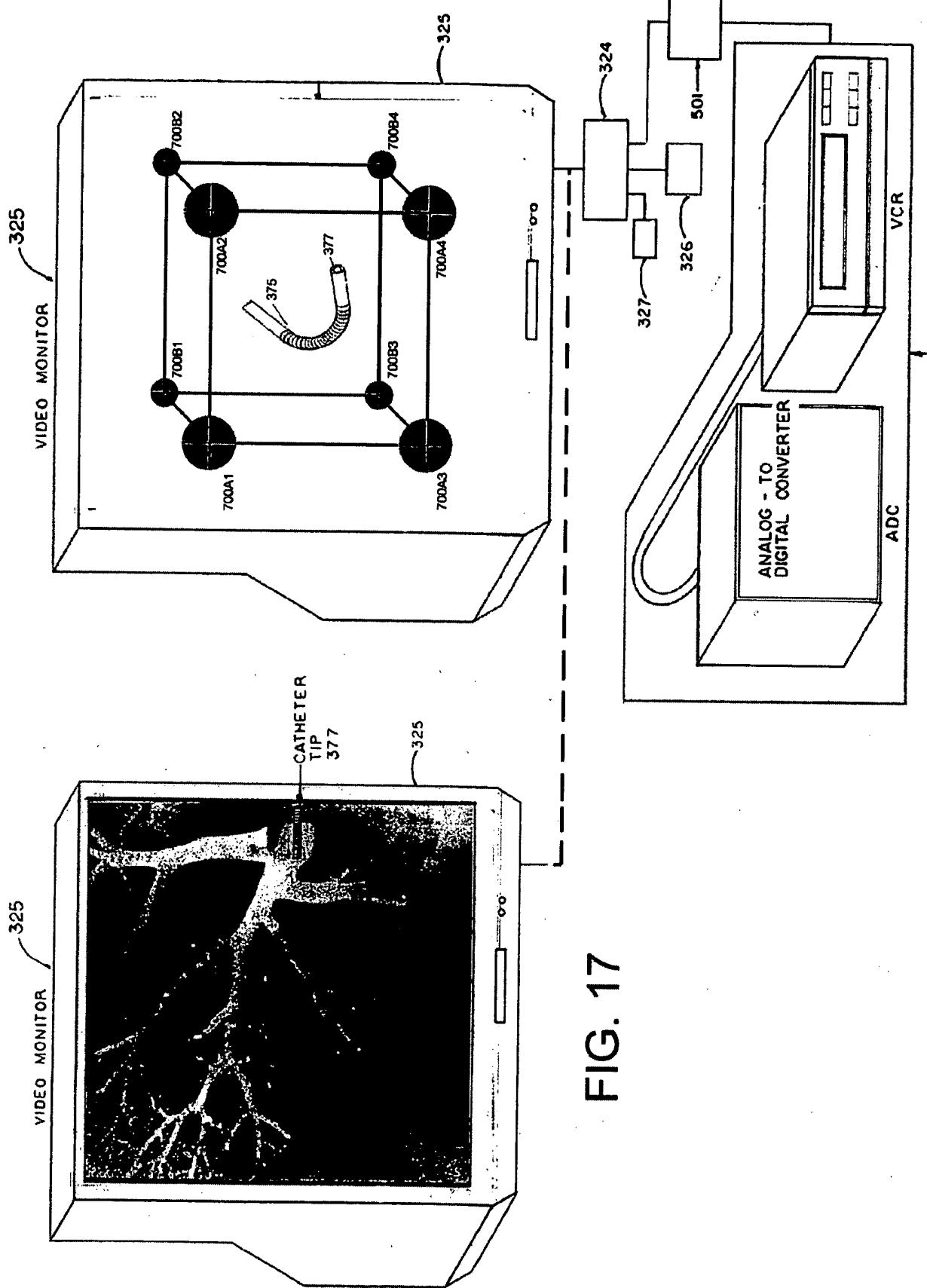


FIG. 17

FIG. 17A

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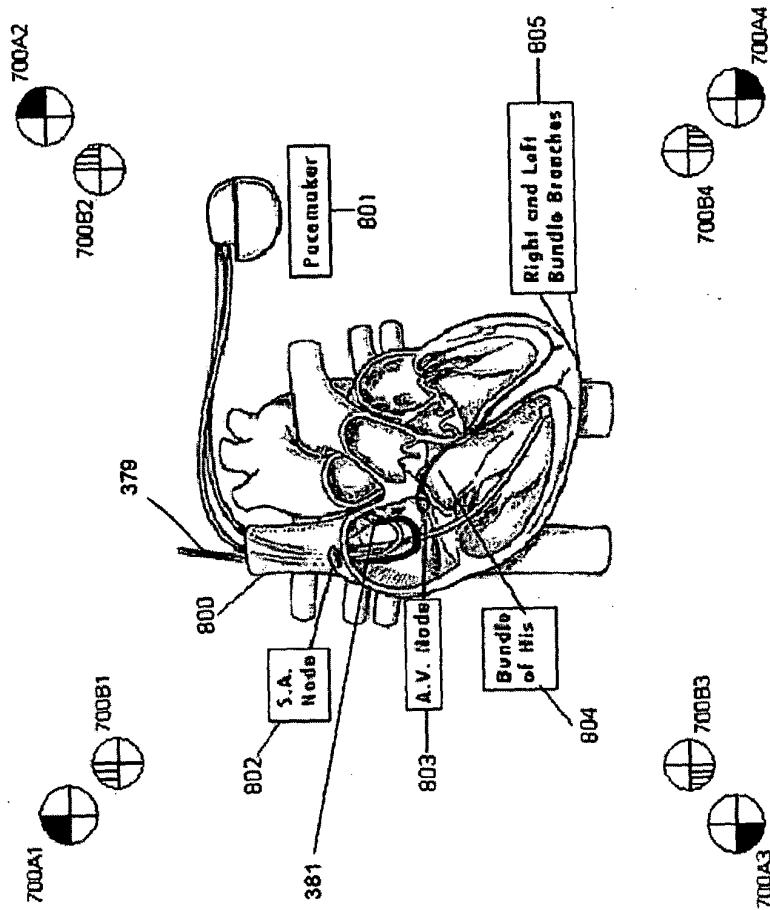


FIG. 17B

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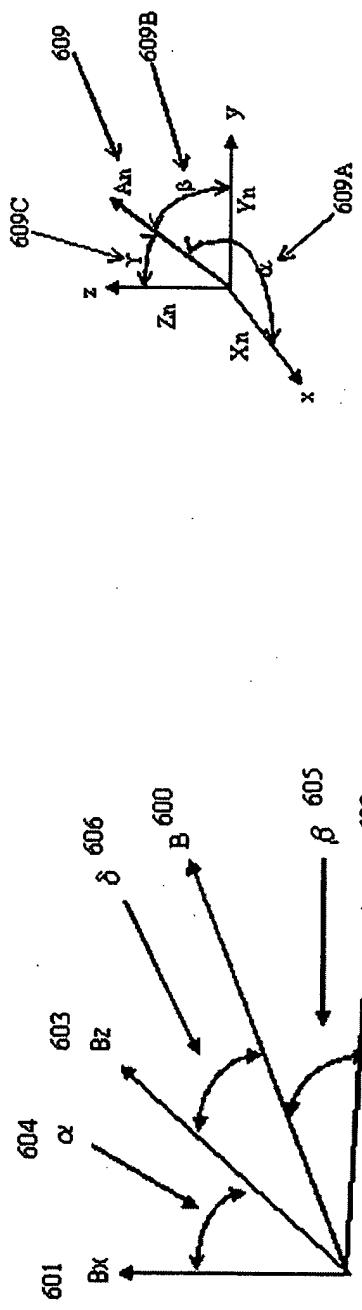


FIG. 18

FIG. 18B

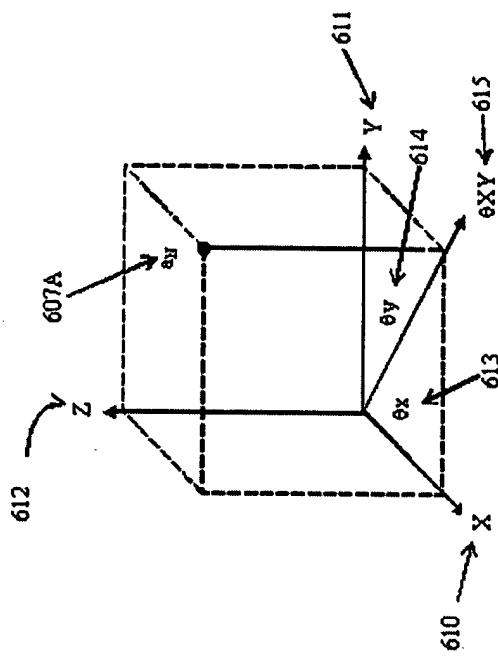
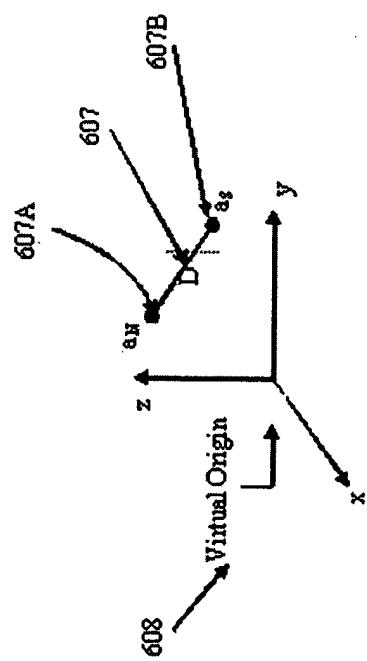


FIG. 18A

FIG. 18C



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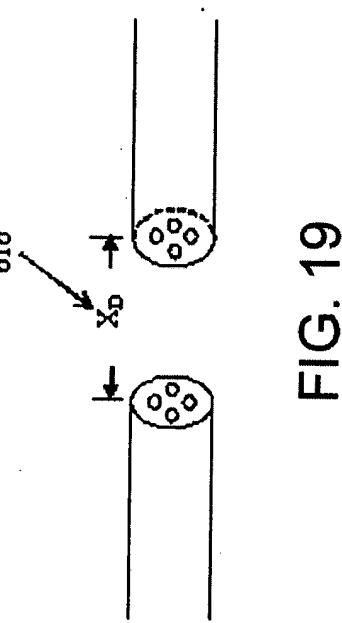


FIG. 19

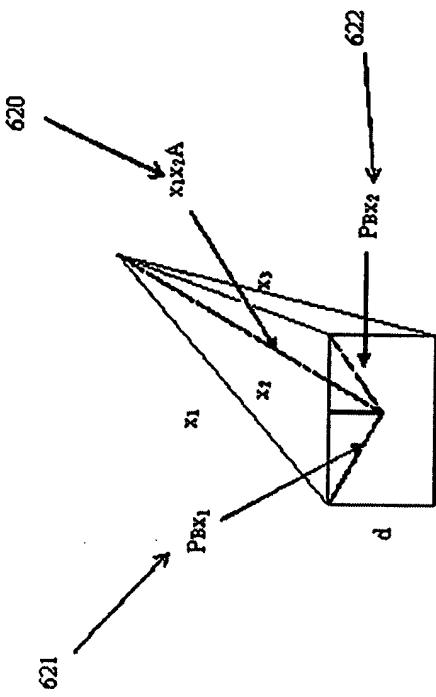


FIG. 20

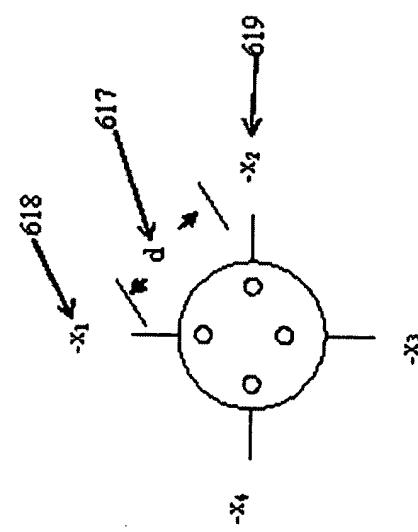


FIG. 19A

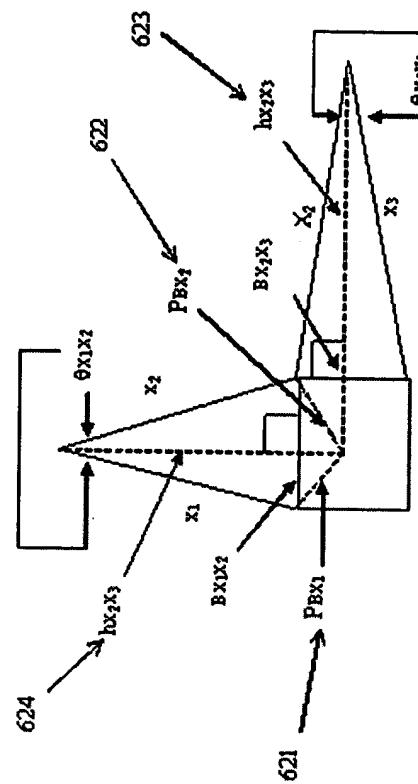


FIG. 20A

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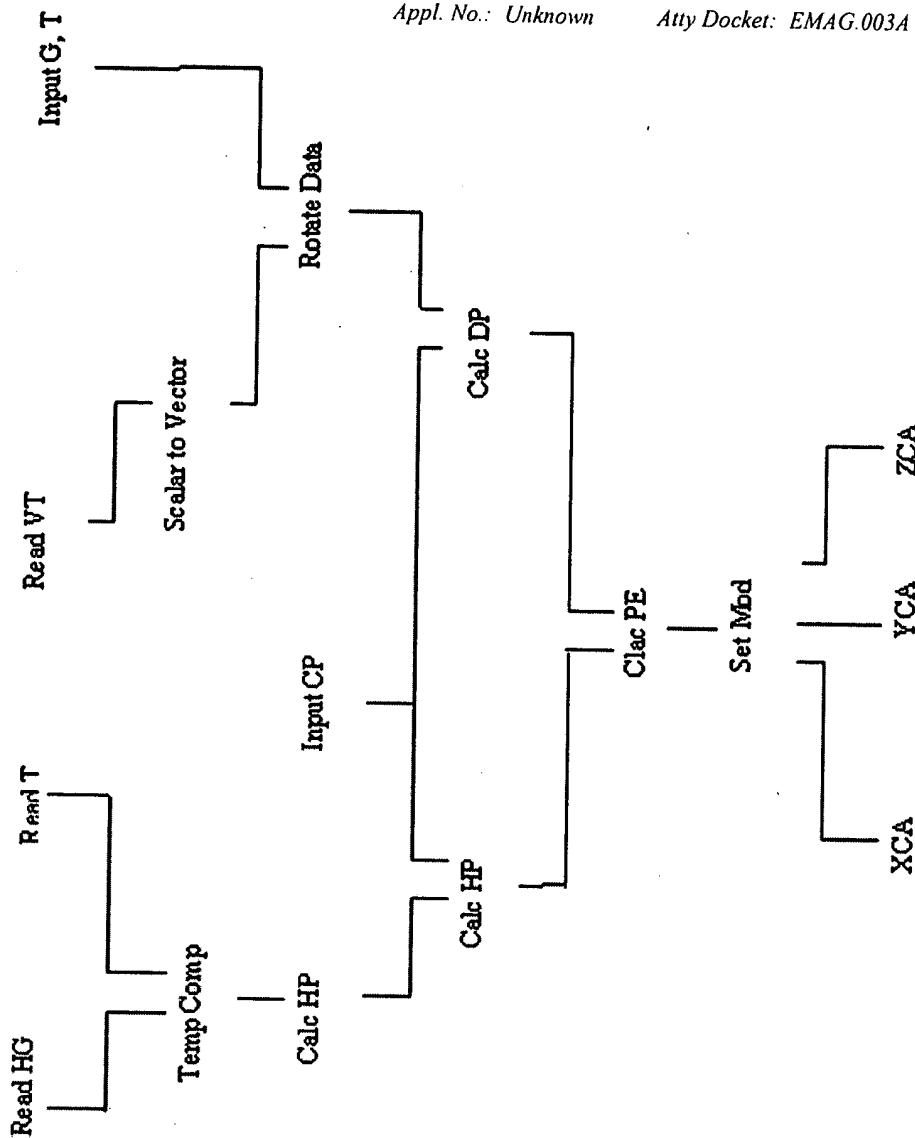


FIG. 21

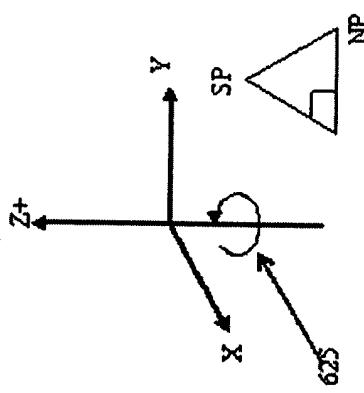


FIG. 22

